AMENDMENTS TO THE CLAIMS

1.   (Currently Amended) A system comprising:

a plurality of mobile stations;

at least one packet data network; and

a wireless access integrated node (WAIN) coupled to the plurality of mobile

stations via a radio interface and coupled to the at least one packet data

network via a network interface to provide an intermediating wired and/or

wireless dedicated broadband connection between the plurality of mobile

stations and the at least one packet data network, wherein the dedicated

broadband connection ~~is to implement~~ implements a simplified protocol

structure eliminating unnecessary intermediate protocol layers.

2.   (Previously Presented) The system of claim 1, wherein the packet data network

comprises the Internet.

3.   (Previously Presented) The system of claim 1, wherein the packet data network

comprises an intranet.

4.   (Previously Presented) The system of claim 3, wherein a content server is

attached to the intranet.

5.   (Previously Presented) The system of claim 75, wherein the plurality of mobile

data transmission modules comprises a Packet Data Convergence Protocol

(PDCP) module.

6.   (Previously Presented) The system of claim 75, wherein the plurality of mobile

data transmission modules comprises a Radio Link Control / Medium Access

Control (RLC/MAC) module.

7.	(Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules comprises a Transceiver (TRX) module.

8.	(Previously Presented) The system of claim 75, wherein the plurality of signaling modules comprises Radio Resource Management.

9.	(Previously Presented) The system of claim 75, wherein the plurality of signaling modules comprises General Packet Radio Service (GPRS) Mobility Management.

10.	(Previously Presented) The system of claim 75, wherein the plurality of signaling modules comprises Session Management.

11.	(Previously Presented) The system of claim 75, wherein the plurality of interfaces comprises a voice interface.

12.	(Previously Presented) The system of claim 75, wherein the plurality of interfaces comprises a local information system interface.

13.	(Previously Presented) The system of claim 75, wherein the plurality of interfaces comprises an appliance control interface.

14.	(Previously Presented) The system of claim 75, wherein the plurality of interfaces comprises an intranet gateway.

15.	(Previously Presented) The system of claim 75, wherein the plurality of ports comprises an RJ11 port for a fixed wire telephone connection.

16.	(Previously Presented) The system of claim 75, wherein the system interconnected with the WAIN comprises a local information system.

17.	(Previously Presented) The system of claim 16, wherein the WAIN is to remotely synchronize a personal digital assistant with its host program on the local information system.

18.   (Previously Presented) The system of claim 16, wherein the WAIN further comprises voice recognition capability to audibly replay service request commands from the mobile station to the local information system.

19.   (Previously Presented) The system of claim 16, wherein the WAIN further comprises text-to-speech capability to audibly replay information from the local information service to the mobile station.

20.   (Cancelled)

21.   (Previously Presented) The system of claim 1, wherein the WAIN further comprises voice recognition capability to audibly replay remote control commands from the plurality of mobile stations to an application command system.

22.   (Previously Presented) The system of claim 21, wherein the WAIN further comprises text-to-speech capability to audibly replay an appliance status report delivered from the appliance control system to the plurality of mobile stations.

23.   (Previously Presented) The system of claim 1, wherein the WAIN further comprises a wireless data controller.

24.   (Previously Presented) The system of claim 1, wherein the radio interface comprises a GPRS radio interface.

25.   (Previously Presented) The system of claim 1, wherein the network interface comprises an Internet Protocol (IP) interface.

26.   (Previously Presented) The system of claim 1, further comprising a user to obtain a temporary subscription to the WAIN through a dynamic registration and cancellation process, wherein a secret subscription identity of a mobile station of the user is linked with an equipment identity of the mobile station of the user.

27.   (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to modulate data packets.

28.   (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to compress data packets.

29.   (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to encrypt data packets.

30.   (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to multiplex data packets.

31.   (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to correct errors in data packets.

32.   (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to segment data packets.

33.   (Previously Presented) The system of claim 75, wherein the plurality of mobile data transmission modules are to control sequence of data packets.

34.   (Previously Presented) The system of claim 1, wherein the WAIN is further to support mobile stations roaming between a local WAIN environment and a public mobile network.

35.   (Cancelled)

36.   (Previously Presented) The system of claim 1, wherein the WAIN is further to provide wireless data services in a community service area located within cells of a public network when the WAIN is clustered with other WAIN systems.

37.   (Previously Presented) The system of claim 1, wherein the WAIN supports mobile stations roaming between different WAIN systems.

38. (Previously Presented) The system of claim 1, wherein the WAIN is further to configure the WAIN as a network node where no specified system parameters are present.

39. (Currently Amended) A device comprising:

a plurality of mobile data transmission modules and signaling modules for sending, processing, and receiving data packets;

a plurality of interfaces and ports for sending messages to and receiving messages from at least one packet data network, systems, and a plurality of mobile stations interconnected with the device;

a database containing subscription, operation, and charging information for the plurality of mobile stations attached to the device; and

a main controller to collect charging data and coordinate and control one or more of the mobile data transmission modules, signaling modules, interfaces, port, and database, ~~database;~~ wherein the device directly intermediating between the plurality of mobile stations and at least one packet data network to provide a wired and/or wireless dedicated broadband connection, ~~wherein the dedicated broadband connection is to implement~~ implementing a simplified protocol structure eliminating unnecessary intermediate protocol layers, wherein the device automatically configures itself to minimize interference between the plurality of mobile stations and the at least one packet network.

40. (Previously Presented) The device of claim 39, wherein the packet data network comprises the Internet.

41. (Previously Presented) The device of claim 39, wherein the packet data network comprises an intranet.

42. (Previously Presented) The device of claim 41, wherein a content server is attached to the Internet.

43. (Previously Presented) The device of claim 39, wherein the plurality of mobile data transmission modules comprises a Packet Data Convergence Protocol (PDCP) module.

44. (Previously Presented) The device of claim 39, wherein the plurality of mobile data transmission modules comprises a Radio Link Control / Medium Access Control (RLC/MAC) module.

45. (Previously Presented) The device of claim 39, wherein the plurality of mobile data transmission modules comprises a Transceiver (TRX) module.

46. (Previously Presented) The device of claim 39, wherein the plurality of signaling modules comprises a radio resource management module.

47. (Previously Presented) The device of claim 39, wherein the plurality of signaling modules comprises a General Packet Radio Service (GPRS) mobility management module.

48. (Previously Presented) The device of claim 39, wherein the plurality of signaling modules comprises a session management module.

49. (Previously Presented) The device of claim 39, wherein the plurality of interfaces comprises a voice interface.

50. (Previously Presented) The device of claim 39, wherein the plurality of interfaces comprises a local information system interface.

51.   (Previously Presented) The device of claim 39, wherein the plurality of interfaces comprises an appliance control interface.

52.   (Previously Presented) The device of claim 39, wherein the plurality of interfaces comprises an intranet gateway.

53.   (Previously Presented) The device of claim 39, wherein the plurality of ports comprises a Registered Jack number 11 (RJ11) port for a fixed wire telephone connection.

54.   (Previously Presented) The device of claim 39, wherein the system interconnected with the device comprises a local information system.

55.   (Previously Presented) The device of claim 39, further including a voice recognition subsystem.

56.   (Previously Presented) The device of claim 39, further including a text-to-speech synthesis subsystem.

57.   (Previously Presented) The device of claim 39, wherein the system interconnected with the device comprises a local appliance control system.

58.   (Previously Presented) The device of claim 39, wherein the system interconnected with the device comprises a wireless data collector.

59.   (Previously Presented) The device of claim 39, wherein the plurality of interfaces comprises a radio interface including a GPRS radio interface.

60.   (Previously Presented) The device of claim 39, wherein the plurality of interfaces comprises a network interface including an IP interface.

61.   (Previously Presented) The device of claim 39, wherein the plurality of mobile data transmission modules are to modulate data packets.

62.   (Previously Presented) The device of claim 39, wherein the plurality of mobile data transmission modules are to compress data packets.

63.   (Previously Presented) The device of claim 39, wherein the plurality of mobile data transmission modules are to encrypt data packets.

64.   (Previously Presented) The device of claim 39, wherein the plurality of mobile data transmission modules are to multiplex data packets.

65.   (Previously Presented) The device of claim 39, wherein the plurality of mobile data transmission modules are to correct errors in data packets.

66.   (Previously Presented) The device of claim 39, wherein the plurality of mobile data transmission modules are to segment data packets.

67.   (Previously Presented) The device of claim 39, wherein the plurality of mobile data transmission modules are to control sequence of data packets.

68.   (Previously Presented) The device of claim 39, further configures the device as network node where no specified system parameters are present.

Claims 69-74 (Cancelled)

75.   (Currently Amended) The system of claim 1, wherein the WAIN comprises:

a plurality of mobile data transmission modules and signaling modules for

sending, processing, and receiving data packets,

a plurality of interfaces and ports for sending messages to and receiving messages

from at least one packet data network, systems, and mobile stations

interconnected with the WAIN,

a database containing subscription, operating, and charging information for the

plurality of mobile stations attached to the WAIN, and

a main controller to collect charging data and coordinate and control <u>one or more</u>

<u>of</u> the mobile data transmission modules, signaling modules, interfaces,

and databases.